

Minutes of Radiation Safety Committee of August 1, 2001

BAF Critical Devices

Present: L. Ahrens, D. Beavis, I.-H. Chiang, E. Lessard, W. MacKay, R. Prigl, A. Steven sand N. Williams

The critical devices for BAF were reviewed. A description by R. Prigl and K. Brown was previously distributed to the committee (see file attachment 1). Beam studies have shown that it is possible to scrap the D6 septum with the bumps and thin septum off. Such scrapping can create a secondary beam for the BAF transport and therefore renders these devices as not acceptable as critical devices for BAF. It is impossible to transport any primary beam if the D6 septum is off. The plug in the front of the BASF tunnel will prevent any transport of any potential secondary beam created on the D6 septum. The approved critical device (or state) is D6 off and the plug in. This state must be defined dual and independent. The CEE will approve the method to interlock the Power supply for D6 (**Ck-BAF-fy2002-252**) . The CME will approve the interlocks on the beam plug (**Ck-BAF-FY2002-253**) .

The review of the interlocks must take into account the closing time for the beam plug. This review will occur after the plug is tested for opening and closing times. (**Ck-BAF-FY2002-254**)

The interlocks will require that the plug be removed before the D6 septum can be turned on. (**Ck-BAF-FY2002-255**)

The reachbacks for these devices will be Booster Injection. (**CK-BAF-FY2002-256**)

As noted in a previous meeting there will be two chipmunks located after the beam plug. Fault studies will need to be conducted to determine if access can be allowed to the zone near the dipoles. Attention must be given to the dose that can be obtained in a fault if personnel are allowed to access this area with the booster beam on.

The new location of the booster beam dumps needs to be reviewed for both soil activation and secondary radiation. (**CK-BAF-FY2002-257**)

Documentation showing that D6 off prevents all primary beam from entering the BAF aperture must be sent to the RSC Chairman for the files. (**CK-BAF-FY2002_258**)

Attachments (file copy)

K. Brown and R. Prigl, Memo of July 27, 2001.

CC:

BAF File
Minutes File